



Figure 1

HSPDE1A	---- <td>47</td>	47
HSPDE1B	MELSPRSPPEMLEESDCPSPLELKSAPSKMWIKLRSL-----LRYMVKQLENGEI	51
HSPDE1C	----MESPTKEIEEFESNSLYLQPEQIEKIWLRLRGLRKYKKSQRLRSLVKQLERGEA	56
	*.. : ** : : * : * : * : : * : * : * : *	
HSPDE1A	NVVDLKKNIYAASVLEAVYIDETRRLDTEDELSDIQTDSVPSEVRDWLASTFTRKMG	107
HSPDE1B	NIELKKNLEYTASLLEAVYIDETRQILDTEDELQELRSDAVPSEVRDWLASTFTQARA	111
HSPDE1C	SVVDLKKNLEYAATVLESVYIDETRRLDTEDELSDIQSDAVPSEVRDWLASTFTQMG	116
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HSPDE1A	TKKKPEEKPKFRSIVHAVQAGIFVERMYRKYHVMGLAYPAAVIVTLKDVKWSFDVFAL	167
HSPDE1B	KGRRAEEKPKFRSIVHAVQAGIFVERMFRRTYTSVGPTYSTAVLNCLKNLDLWCFDVFSL	171
HSPDE1C	MLRRSDEKPRFKSIVHAVQAGIFVERMYRRTSNMVGLSYPPAVIEALKDVKWSFDVFSL	176
	: : : * : * : * : * : * : * : * : * : * : * : * : * : * : *	
HSPDE1A	NEASGEHSLKFMIELFTRYDLINRFKIPVSLITFAEAEVGYSKYKNPYHNLHAADV	227
HSPDE1B	NQAADDHALRTIVFELLTRHNLISRFKIPVFLMSFLDALETGYGKYKNPYHNQIHAADV	231
HSPDE1C	NEASGDHALKFIFYELLTRYDLISRFKIPISALVSFVEAEVGYSKHKNPYHNLMAADV	236
	* : * : * : * : * : * : * : * : * : * : * : * : * : * : *	
HSPDE1A	TQTVHYIMLHTGIMHWLLEILAMVFAAAIHDEHTGTTNNFHIQTRSDVAILYNDRSV	287
HSPDE1B	TQTVHCFLLRTGMVHCLSEIELLAIIFAAAIHDEHTGTTNSFHIQTKSECAIVYNDRSV	291
HSPDE1C	TQTVHYLLYKTVANWLLEILFAIIFSAAIHDEHTGTTNNFHIQTRSDPAILYNDRSV	296
	***** : : * : * : * : * : * : * : * : * : * : * : * : * : *	
HSPDE1A	LENHHVSAAYRLMQEEE-MNILINLSKDDWRDLRLNVIEMVLSTDMSGHFQOIKNIRNSL	346
HSPDE1B	LENHHISSVFRMLQDDE-MNIFINLTKEFVELRALVIEMVLATDMSCHFQOVKTMKTAL	350
HSPDE1C	LENHHLAAYRLQDDEEMNILINLSKDDWREFRTLVIEMVMATDMSCHFQOIKAMKTAL	356
	***** : : * : * : * : * : * : * : * : * : * : * : * : * : *	
HSPDE1A	QQPEGIDRAKMSLILHAADISHPAKSWKLHYRWTMALMEEFFLQGDKEAELGLPFSPLC	406
HSPDE1B	QQLERIDKPKALSLLLHAADISHPTKQWLHVRWTKALMEEFFRQGDKEAELGLPFSPLC	410
HSPDE1C	QQPEAIEKPKALSMLHTADISHPAKAWDLHHRWTMSLLEEFFRQGDREAEGLPFSPLC	416
	** * * : : * : * : * : * : * : * : * : * : * : * : * : * : *	
HSPDE1A	DRKSTMVAQSQIGFIDFIVEPTFSLTLDSTEKIVIPLEEASKAETS-----SYVASS	459
HSPDE1B	DRSTLVAQSQIGFIDFIVEPTFSLTLDVAEKSVQPLADEDSKSKNQP----SFQWRQPS	466
HSPDE1C	DRKSTMVAQSQVGFIDFIVEPTFTVLTDMTEKIVSPLIDETSQTGGTGQRRSSLNSISS	476
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HSPDE1A	STTIVGLHIA-----DALRRSNTKGSMSDGSYSPDYSLAAVDLKSFKNNL	504
HSPDE1B	LDVEVGDPNP-----DVVSFRSTWVKRIQENKQKWKERAASGITNQMS--	509
HSPDE1C	DAKRSVKTSGSEGSAPINNSVISVDYKSFKATWTEVVHINRERWRAKVPKEEKAKKEAE	536
	* . * . *	
HSPDE1A	VDIIQQNKERWK--ELAAQEARTSSQKCEFIHQ-----	535
HSPDE1B	IDELSPCEEEAP--PSPAEDHNQNGNLD-----	536
HSPDE1C	EKARLAEEQQKEMEAKSQAEEGASGKAEKKTSGETKNQVNGTRANKSDNPRGKNSKAEK	596
	. : * . : : . . : :	
HSPDE1A	-----	(SEQ ID NO:22)
HSPDE1B	-----	(SEQ ID NO:3)
HSPDE1C	SSGEQQQNGDFKDGKNKTDKKDHSNIGNDSKKTDDSQE	634 (SEQ ID NO:23)

Figure 4A

N-terminal sequences of PDE1A splice variants

PDE1A3_ 1 MGSSATEIEELENTTFKYLTGEQTEKMWQRLKGILRCLVKQLERGDVNVVDLKKNIEYAA (SEQ ID NO:6)
 PDE1A5_ 1 MDDHVTIRKKHLQRPIFRLRCLVKQLERGDVNVVDLKKNIEYAA (SEQ ID NO:7)

Figure 4B

N-terminal sequences of PDE1B splice variants

PDE1B1_ 1 MELSPRSPPEMLEESDCPSPLELKSAPSKKMWIKLRSLRLRYMVKQLENGEINIEELKKNL (SEQ ID NO:8)
 PDE1B2_ 1 MANPVPVQRSHLQGPILRLRYMVKQLENGEINIEELKKNL (SEQ ID NO:9)

Figure 4C

Comparison of the CaM binding domains of the PDE1A1 and PDE1B2 splice variants

PDE1A1 1 MDDHVTIRKKHLQRPIFRLRCLVKQLEKGDVNVIDLKKN (SEQ ID NO:10)
 PDE1B2 1 MANPVPVQRSHLQGPILRLRYMVKQLENGEINIEELKKN (SEQ ID NO:11)

Figure 4D

Comparison of the CaM binding domains of the PDE1A2 and PDE1B1 splice variants.

PDE1A2 1 MGSTATETEELNTTFKYLIQEATEKMWQRLKGILRCLVKQLEKGDVNVIDLKKNIE (SEQ ID NO:12)
 PDE1B1 1 MELSPRSPPEMLEESDCPSPLELKSAPSKKMWIKLRSLRLRYMVKQLENGEVNIEELKKNLE (SEQ ID NO:13)